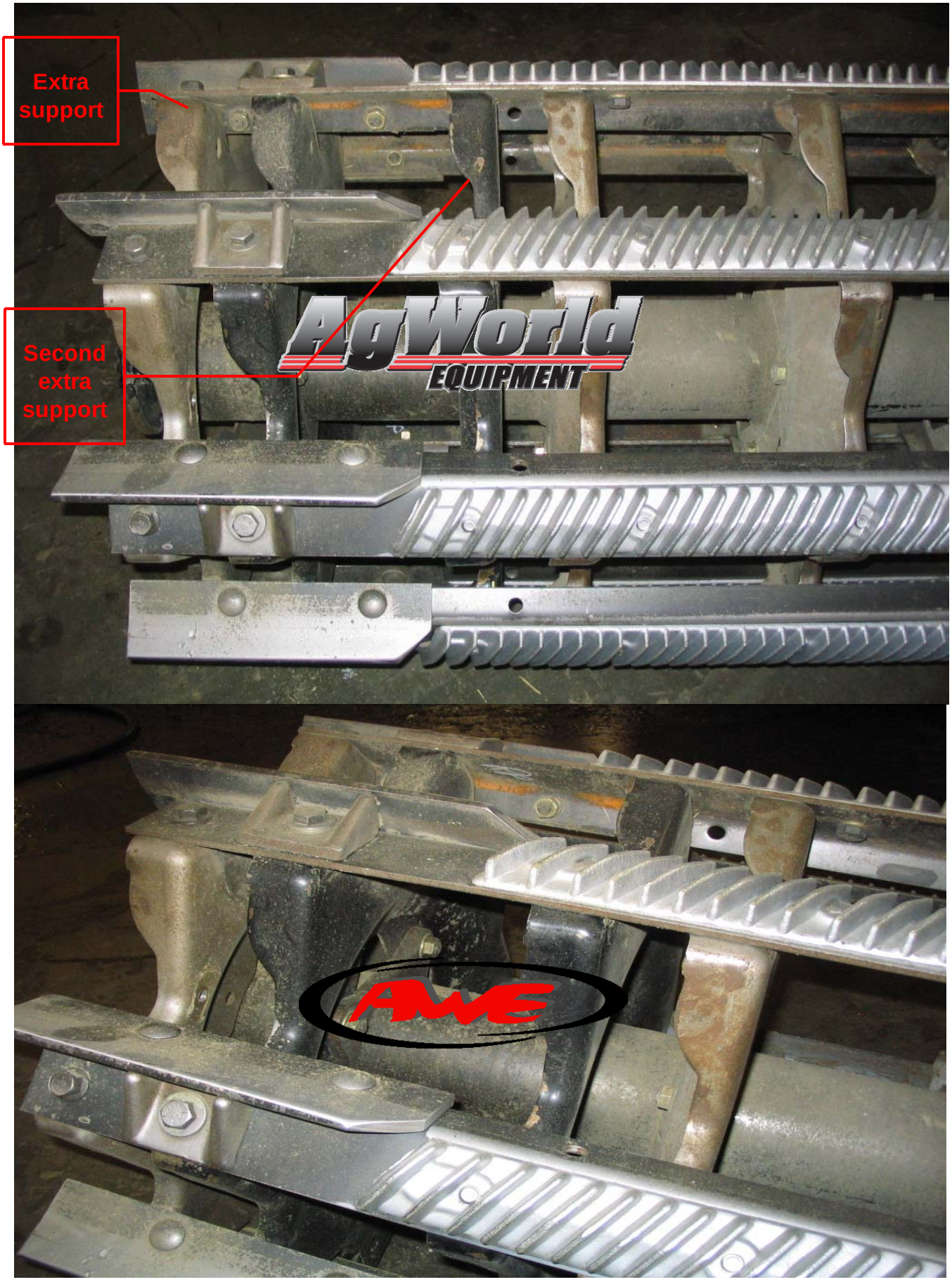
Gleaner rotor reinforcement

The rotor installed in Gleaner grain combines have had in the past a history of failing at the discharge end of the rotor. This is due to the fact that the rotor has not been modified to increase it's strength since Agco has increased the horsepower in the combines they produce. With the increase in horsepower the machine has greater capacity, so the amount of material in the processor has increased. This increases the material load on the discharge end of the rotor. The chopper area did not change in size, so the rotor has to force more material through the same size opening, putting increased strain on the backing bars of the rotor, and in some cases bending them or even breaking them off. These broken pieces can cause catastrophic damage to the rotor, separator cage, chopper floor, chopper, stationary knives...etc. This failure can end up costing, you the customer, thousands of dollars in parts, labour, and machine downtime.

This modification consists of two extra spiders and extra lugs to increase the rigidity of the discharge end of the rotor. Since this dealership has been installing the reinforcement, failures in this area have been practically eliminated, with the exception of foreign material damage, (rocks, roots, metal ...etc.).

Installation of the reinforcement requires the removal of the rotor. Extra holes have to be drilled to mount the extra lugs and the spiders. One spider can be installed without dissasembling the rotor but it has been found that two are required to provide the strength needed. After installation of the reinforcement, the rotor MUST be statically balanced, reinstalled in the machine, and then engage the separator and run up machine checking for vibrations.


Extra support
Second extra support
AgWorld
EQUIPMENT
AWE